

## Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of the Claims:

Claim 1 (currently amended): A method for notifying a responsible person of a minor of an electronic communication sent or received by the minor and including content relating to sexual predatory behavior directed to the minor, comprising:

~~analyzing one or more features of the electronic communication, said one or more features indicative of the sexual predatory behavior directed to the minor;~~

specifying a the type of the sexual predatory behavior to detect whether the electronic communication relates to said type of the sexual predatory behavior wherein said type of the sexual predatory behavior includes one or more of the following: bullying behavior, offensive language, personal information solicitation or revelation, personal characteristics solicitation or revelation, meeting arrangement with a stranger, picture sharing with a stranger, or a combination thereof;

parsing the electronic communication to generate a plurality of constituent tokens of the electronic communication;  
generating, in response to said tokens, a feature vector associated with the electronic communication, said feature

vector indicating whether each one of a predefined set of one or more features relating to the type of the sexual predatory behavior is present in the electronic communication; and

\_\_\_\_\_ applying the generated feature vector to a probabilistic classifier relating to the type of the sexual predatory behavior to generate a rating for the electronic communication, wherein the probabilistic classifier trained on a content, anti-content, and closeanti-content of the type of the sexual predatory behavior to identify said predefined set of one or more features, said rating indicating a probability that the electronic communication relates to the type of the sexual predatory behavior;

\_\_\_\_\_ categorizing the electronic communication as relating to the type of the sexual predatory behavior as a function of the ~~analyzed features~~ rating;

generating a report if the electronic communication is categorized as relating to the sexual predatory behavior, said report indicative of the sexual predatory behavior directed to the minor; and

sending the report to the responsible person of the minor.

Claim 2-4 (canceled).

Claim 5 (currently amended): The method of claim 1 [[4]], wherein the electronic communication is categorized as relating to the type of the sexual predatory behavior if the rating is greater than a threshold level.

Claim 6 (currently amended): The method of claim 1 [[4]], wherein the probabilistic classifier comprises one or more classifiers selected from a group comprising: a Naïve Bayesian classifier, a limited dependence Bayesian classifier, a Bayesian network classifier, a decision tree, a support vector machine, a content matching classifier, or a combination thereof.

Claim 7 (currently amended): The method of claim 1 [[4]], wherein parsing the electronic communication comprises one or more of the following: parsing the electronic communication with respect to a certain period of time, parsing the electronic communication with respect to a certain size window, or parsing the entire electronic communication.

Claim 8 (currently amended): The method of claim 1 [[4]] further comprises updating one or more of the following: the

probabilistic classifier or the predefined set of one or more features.

Claim 9 (previously presented): The method of claim 1, wherein the report is further sent to the minor.

Claim 10 (original): The method of claim 1 further comprising not to generate and send the report if an input indicating that a source or recipient of the electronic communication is trustworthy is received from the responsible person.

Claim 11 (previously presented): The method of claim 1, wherein the report comprises one or more of the following: a content of the electronic communication, an identification of a source or recipient of the electronic communication, a time of the electronic communication, a type of the sexual predatory behavior related to the electronic communication, and a recommendation of how to address said type of the sexual predatory behavior.

Claim 12 (previously presented): The method of claim 1 further comprising indicating that the electronic communication is being

analyzed to one or more of the following: a source or recipient of the electronic communication or the minor.

Claim 13 (previously presented): The method of claim 1 further comprising generating an alert if the electronic communication is categorized as relating to the sexual predatory behavior, said alert informing that the electronic communication relates to the sexual predatory behavior to one or more of the following: the minor or the responsible person.

Claim 14 (original): The method of claim 13, wherein said alert is generated only if the electronic communication is still in progress.

Claim 15 (original): The method of claim 1, wherein the electronic communication comprises one or more electronic messages selected from a group comprising: an email, an instant messaging session, or a chat session.

Claim 16 (previously presented): One or more computer readable storage media having computer-executable instructions for performing the method of claim 1.

Claim 17 (currently amended): A system for detecting an electronic communication sent or received by a minor including sexual predatory behavior, comprising:

a computer to receive or send the electronic communication;  
computer-executable instructions to specify a type of the sexual predatory behavior to detect whether the electronic communication relates to said type of the sexual predatory behavior wherein said type of the sexual predatory behavior includes one or more of the following: bullying behavior, offensive language, personal information solicitation or revelation, personal characteristics solicitation or revelation, meeting arrangement with a stranger, picture sharing with a stranger, or a combination thereof;

computer-executable instructions to analyze one or more features of the electronic communication, said one or more features indicative of the sexual predatory behavior wherein the computer-executable instructions to analyze one or more features of the electronic communication further comprise computer-executable instructions to:

parse the electronic communication to generate a plurality of constituent tokens of the electronic communication;

generate, in response to said tokens, a feature vector associated with the electronic communication, said feature vector indicating whether each one of a predefined set of one or more features relating to the type of the sexual predatory behavior is present in the electronic communication; and

apply the generated feature vector to a probabilistic classifier relating to the type of the sexual predatory behavior to generate a rating for the electronic communication, wherein the probabilistic classifier trained on a content, anti-content, and close anti-content of the type of the sexual predatory behavior to identify said predefined set of one or more features, said rating indicating a probability that the electronic communication relates to the type of the sexual predatory behavior;

computer-executable instructions to categorize the electronic communication as either relating to the sexual predatory behavior or relating to an innocuous behavior as a function of the ~~analyzed features~~ rating;

computer-executable instructions to generate a report if the electronic communication is categorized as relating to the sexual predatory behavior, said report indicative of the sexual predatory behavior; and

computer-executable instructions to send the report to a responsible person of the minor.

Claim 18-20 (canceled).

Claim 21 (currently amended): The system of claim 17 ~~20~~, wherein the electronic communication is categorized as relating to the type of the sexual predatory behavior if the rating is greater than a threshold level.

Claim 22 (currently amended): The system of claim 17 ~~20~~, wherein the probabilistic classifier comprises one or more classifiers selected from a group comprising: a Naïve Bayesian classifier, a limited dependence Bayesian classifier, a Bayesian network classifier, a decision tree, a support vector machine, a content matching classifier, or a combination thereof.



Claim 23 (currently amended): The system of claim 17 ~~20~~, wherein the computer-executable instructions to parse the electronic communication comprise computer-executable instructions to perform one or more of the following: parsing the electronic communication with respect to a certain period of time, parsing the electronic communication with respect to a certain size window, or parsing the entire electronic communication.

Claim 24 (currently amended): The system of claim 17 ~~20~~ further comprising computer-executable instructions to update one or more of the following: the probabilistic classifier or the predefined set of one or more features.

Claim 25 (previously presented): The system of claim 17, wherein the report is further sent to the minor.

Claim 26 (original): The system of claim 17 further comprising computer-executable instructions not to generate and send the report if an input indicating that a source or recipient of the electronic communication is trustworthy is received from the responsible person.

Claim 27 (previously presented): The system of claim 17, wherein the report comprises one or more of the following: a content of the electronic communication, an identification of a source or recipient of the electronic communication, a time of the electronic communication, a type of the sexual predatory behavior related to the electronic communication, and a recommendation of how to address said type of the sexual predatory behavior.

Claim 28 (previously presented): The system of claim 17 further comprising computer-executable instructions to indicate that the electronic communication is being analyzed to one or more of the following: a source or recipient of the electronic communication or the minor.

Claim 29 (previously presented): The system of claim 17 further comprising computer-executable instructions to generate an alert if the electronic communication is categorized as relating to the sexual predatory behavior, said alert adapted to inform that the electronic communication relates to the sexual predatory behavior to one or more of the following: the minor or the responsible person.

Claim 30 (original): The system of claim 29, wherein said alert is generated only if the electronic communication is still in progress.

Claim 31 (original): The system of claim 17, wherein the electronic communication comprises one or more electronic messages selected from a group comprising: an email, an instant messaging session, or a chat session.

Claim 32 (original): The system of claim 17, wherein said computer is a server or a client.

Claim 33 (original): The system of claim 17, wherein said computer is a client and said computer-executable instructions to analyze the electronic communication are located on a server, and wherein the server is adapted to receive the electronic communication sent or received by the client for said computer-executable instructions located on the server to analyze the electronic communication.

Claim 34 (currently amended): A computer-readable storage medium having computer-executable instructions for performing a method to detect an electronic communication sent or received by a minor and relating to a sexual predatory behavior directed to the minor, said method comprising:

~~analyzing one or more features of the electronic communication, said one or more features indicative of the sexual predatory behavior directed to the minor;~~

specifying a the type of the sexual predatory behavior directed to the minor to detect whether the electronic communication relates to said type of the sexual predatory behavior directed to the minor wherein said type of the sexual predatory behavior includes one or more of the following: bullying behavior, offensive language, personal information solicitation or revelation, personal characteristics solicitation or revelation, meeting arrangement with a stranger, picture sharing with a stranger, or a combination thereof;

parsing the electronic communication to generate a plurality of constituent tokens of the electronic communication;

generating, in response to said tokens, a feature vector associated with the electronic communication, said feature vector indicating whether each one of a predefined set of one or

more features relating to the type of the sexual predatory behavior directed to the minor is present in the electronic communication; and

applying the generated feature vector to a probabilistic classifier relating to the type of the sexual predatory behavior to generate a rating for the electronic communication, wherein the probabilistic classifier trained on a content, anti-content, and close anti-content of the type of the sexual predatory behavior directed to the minor to identify said predefined set of one or more features, said rating indicating a probability that the electronic communication relates to the type of the sexual predatory behavior directed to the minor;

categorizing the electronic communication as relating to the type of the sexual predatory behavior directed to the minor as a function of the ~~analyzed features~~ rating;

generating an alert to a responsible person of the minor if an electronic communication session associated with the electronic communication is still in progress, said alert indicative that the sexual predatory behavior directed to the minor is in progress;

generating a report if the electronic communication is categorized as relating to the sexual predatory behavior

directed to the minor, said report indicative that the sexual predatory behavior directed to the minor has occurred; and

sending the report to the responsible person of the minor.

Claim 35-36 (canceled).

Claim 37 (currently amended): The computer-readable storage medium of claim 34 ~~36~~, wherein parsing the electronic communication comprises one or more of the following: parsing the electronic communication with respect to a certain period of time, parsing the electronic communication with respect to a certain size window, or parsing the entire electronic communication.

Claim 38 (previously presented): The computer-readable storage medium of claim 34, wherein the method further comprises not to generate and send the report if an input indicating that a source or recipient of the electronic communication is trustworthy is received from the responsible person.

Claim 39 (previously presented): The computer-readable storage medium of claim 34, wherein the method further comprises

indicating that the electronic communication is being analyzed to one or more of the following: a source or recipient of the electronic communication or the minor.

Claim 40 (previously presented): The computer-readable storage medium of claim 34, wherein the alert informs the minor that the electronic communication relates to the sexual predatory behavior directed to the minor.